



MAY 2 1 2002

Approved for use through Obs (2903 DM) of Substitution Office: U.S. Patent and Trademark Office: U.S. Design MERCE
U.S. Patent and Trademark Office: U.S. Design MERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

Substitute for form 1449A/PTO				Complete if Known		
INIEO				Application Number	09/663,600	
INFO	RMAIIO	N DISC	LOSURE	Filing Date	September 15, 2000	
STAT	EMENT	BY AP	PLICANT	First Named Inventor	DUMAS MILNE EDWARDS, et al.	
				Art Unit	1646	
(use as many sheets as necessary)			cessary)	Examiner Name	Eileen B. O'Hara	
Sheet 1 of 3		Attorney Docket Number	31.US3.CIP			

			U.S. PATE	ENT DOCUMENTS	
Examiner Initials		Document Number Number - Kind Code ² (if known	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	·····	US-			
		US-			
		US-			
		US-			
		US-			***************************************
		US-			
]	US-			
		US-	**************************************		***************************************

	FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. 1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
	_	Country Code 3 - Number 4 - Kind Code 5 (if known)			or Relevant Figures Appear	⊤e			
		WO 97/07198 - A2		Genetics Institute Inc.	Y6				
	-	WQ-98/45436 A2	10/15/1998	Genetics Institute Inc.	1:00				
(Barrania	_C.	WO-99/065#8-A2	02/11/1999	Genset	\mm 2				
age of the	₽Do		05/27/1999	Genset Genset	Dodo				
- :	E	WO 00/12708 - A2	- 03/09/2000	Genentech find:					
	F	WO 00/18915 - A2	04/06/2000	Incyte Pharmaceuticals	(3,4				
PROCESS OF	G	WO'00/26360 - A1	··· 05/11/2000	Adherex-Technologies	2 •				
EM	н	WO 96/34981 - A	11/07/1996	Genset	abta A				
EM		EP 0 625 572 - A	11/23/1994	Kanaqawa Acad of Sci.	J., W.				
		<u></u>							

Examiner		BOTH	Date	7/2//2-
Signature	allen	N. U / Jane	Considered	1126/02

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



Approved for use through 10/31/2002. OMB 0551-0031 1.5.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF 00 MNERGE 1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB

CONFORMULA CONTROL OF THE PROPERTY OF THE PROP **INFORMATION DISCLOSURE** STATEMENT BY APPLICANT

(use as many sheets as necessary) of 2 Sheet

Complete if Known EUN UEN EN				
Application Number	09/663.600			
Filing Date	September 15, 2000			
First Named Inventor	DUMAS MILNE EDWARDS, et a			
Group Art Unit	1646			
Examiner Name	Eileen B. O'Hara			
Attorney Docket Number	31.US3.CIP			

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue	т
-	<u>-</u>	FURUSE, et al.; "Claudin-1 and -2: Novel Integral Membrane Proteins Localizing at Tight Junctions with No "Sequence" Similarity-to-Occludin"; The Journal of Cell Biology; Vol::141; No::7//June-29;:1998,:pp1539_1550; The Rockefeller University Press, 0021-9525/98/06/15391/12	
particular Cit.	K	FURUSE, et al.; "Manner of Interaction of Heterogeneous Claudin Species Within and Between Tight Junction Strands", The Journal of Cell,Biology,-Vol147; No4; November-15; 1999; pp: 891:908; The Rockefeller University Ress, 0021-9525/99/11/891/13	
		KATAHIRA, et al.; "Molecular Cloning and Functional Characterization of the Receptor, for Clostrictum perfringens Enterotoxin", The Journal of Cell Biology, Vol. 136, No. 6, March 24, 19997, pp. 1239-1247; The Rockefeller University Press, 0021-9525/97/03/1239/9	
ur het. Suter-	M.	KINUGASA, et al.; "Claudins Regulate the Intestinal Barrier inResponse to Immune Mediators"; Gastroenterology 2000; Vol. 118; pp. 1001 1011; The American Gastroenterological Association; 0016-5085/00	
تا که خواسی	المراقد	LIPPOLDT, et al.; "Organization of choroid plexus epithelial and endothelial cell tight junctions and regulations of "claudin-1,"-2 and -5 expression by protein kinase C"; Molecular Neuroscience, NeuroReport, Vol. 11, No.7, pp.: 1427-1431, May 15, 2000; Lippincot Williams & Wilkins, 0959-4965	
1	2:0%	LOCKHART, et al.; "Expression monitoring by hybridizationto high-density oligonucleotide arrays"; Research Article; Nat Biotechnol. 14(13):1675-80; Published on Dec 1996; p.1675-1680; XP-002074420	
J. Service Co.	₩p.>	TASHIRO, et al.; "Signal Sequence Trap: A Claning Strangy, for Secreted Proteins and Type 4 Membrane" Proteins"; Science, Vol. 261, July 30, 1993; pp.640-593; XP-000673204	
	Q	YOKOYAMA-KOBAYASHI, et al.; "A signal sequence detection system using secreted protease activity as an indicator"; Gene, Vol. 163 (1995), pg. 193-196; Elsevier science, B.V.;;SSDL0378-1; 14(95)00322-3	
	R	Accession No. AAG17984; Claudin-2, Homo Sapiens, Database: Aenbank; GU, J.R., et al.; submitted August 1999; "Novel human-cDNA:clone with function of inhibiting canber of growth," Unpublished	
	5	Accession No. AAC27079; Claudin-2, Mus musculus; Qalabase: Genbank; FURUSE, et al.; submitted June 15, 1998; Claudin-1-and-2; Novel Integral Membrand Proteins Localizing at Tight Junctions with No Sequence Similarity to Occludin*; J. Cell Biol. 141-(7); 1539-1550 (1998)	
	, To	Accession No. T03538; Bento Soares Homo sapiens cDNA clone IB43; Database: EMBL; SIKELA, J.M.; submitted September 21, 1992	
		\	

Examiner Signature	B.O Hara	Date	72:6/02

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.



RECEIVED

PTO(SEQSB (10,01)) 002
Approved for use through 10/31/2002 064-0532 002
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paper ork Reduction of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB
Control number.

TOUL CENTER 1600/2900
Substitute for form 1449B/PTO

Complete if Known

Substitute for form 1449B/PTO
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Sheet

Application Number 09/663.600

Filing Date September 15, 2000

First Named Inventor DUMAS MILNE EDWARDS, et al.

Group Art Unit 1646

Examiner Name Eileen B, O'Hara

Attorney Docket Number 31, US3, CIP

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
→	[]	Accession No. AA057573; Homo sapiens cDNA clone IMAGE:381523; Database: EMBL; WILSON; submitted September 6, 1996	
		Lalicates do not find	
pic sicretana zue	A	Accession No., N57409; Homo stolens CDNA clone IMAGE:258726; Database; EMBY: WILSON; submitted February 22, 1996	
EA	w	CARNINCI, et al.; "High-efficiency full-length cDNA cloning by biotinylated CAP trapper"; Genomics, 37(3):327-36; November 1, 1996; PMID:8938445	-
ENA	. ×	KATO, et al.; "Construction of a human full-length cDNA bank"; Gene, 150(2):243-50; December 15, 1994; PMID:7821789	
TH	Υ	VON HEIJNE, G.; "A new method for predicting signal sequence cleavage sites"; Nucleic Acids Res. 14(11):4683-90; published June 11, 1986; PMID:3714490	
GM	z	NOMURA, N., et al.; "Predictionof the coding sequences of unidentified human genes. I. The coding sequences of 40 new genes (KIAA0001-KIAA0040) deduced by analysis of randomly sampled cDNA clones from human immature myeloid cell line KG-1"; DNA Res. 1(1):27-35; published in 1994; PMID:7584026	
GA	AA	ADAMS, M.D., et al.; "Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence"; Nature 377 (6547 Suppl):3-174; published September 28, 1995; PMID:7566098	
97A	AB	HILLIER, L.D., et al.; "Generation and analysis of 280,000 human expressed sequence tags"; Genome Res. 6(9):807-28; published September 1996; PMID:8889549	
- Proceeding of the y			
n Man washindhiri ya - mangasaya salaya j			

Examiner	Ω Δ Δ	Doto	01
-Adminion		Date	1/2//2
Signature I	(Men DIONAVA	Considered	11-210 1
		LOUISIGETEG	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.